

AUTHOR INDEX, VOLUME 124

Allen, Geraldine A.	254	LaGory, Kirk E.	318
Antos, Joseph A.	254	Langenheim, Jean H.	239
Baskin, Carol C.	214	Lanza, Janet	379
Baskin, Jerry M.	214	Lipscomb, Mary V.	142
Bendell, James F.	330	Louda, Svaťa M.	105
Bertin, Robert I.	153	Marcogliese, David J.	309
Bloom, Charles T.	214	Matthews, William J.	31
Brigham, R. Mark	73	Maycock, Paul F.	289
Bursey, Charles R.	360	McGuire, Terry R.	12
Buschhaus, Nancy L.	318	Menges, Eric S.	171
Clark, Bryon K.	22	Morgan, Michael D.	209
Collinge, Sharon K.	105	Morris, Hershel F., Jr.	413
Doyle, Arlene T.	187	Myster, Randall W.	231
Eisenberg, Robert M.	390	Naylor, Brian J.	330
Esch, Gerald W.	309	Nilsen, Erik T.	142
Feldhamer, George A.	191	Parker, V. Thomas	114
Gerard, Anthony S.	191	Patten, Duncan T.	269, 278
Gettinger, Ronald D.	181	Pickett, S. T. A.	231
Ghent, Arthur W.	184	Potvin, Martha A.	105
Goater, Timothy M.	309	Rand, Matthew S.	352
Goldberg, Stephen R.	360	Rathman, Eric S.	379
Gooch, James L.	93	Ritke, Mark E.	342
Graham, Mary Ann	81	Ruckdeschel, Carol A.	407
Graham, Russell W.	81	Sexton, Owen J.	198
Greenlee, Jason M.	239	Shoop, C. Robert	407
Grobman, Arnold B.	366	Smith, Beverley A.	330
Harlow, Richard F.	187	Steuter, Allen A.	301
Harmon, Jeff L.	372	Stromberg, Juliet C.	269, 278
Harrel, Austin T.	413	Swearingen, Chris D.	57
Huber, James K.	263	Swengel, Ann B.	395
Hurd, L. E.	390	Taylor, Douglas H.	318
Ihnen, Joel	301	Thill, Ronald E.	413
Innes, Duncan G. L.	330	Tieszen, Larry L.	301
Jasch, Bruce	301	Towers, Julie	164
Johnson, W. Carter	130, 142	Trumbo, Stephen T.	1
Joy, James E.	372	Vives, Stephen P.	46
Kaufman, Donald W.	22, 195	Wilkins, Kenneth T.	57
Kaufman, Glennis A.	195	Williams, Charles E.	130, 142
Kelly, Victoria R.	114	Wilson, Jeffrey	379
Keppie, Daniel M.	164	Worthen, Wade B.	12
Killingbeck, Keith T.	124	Zoladeski, Christopher A.	289
		Zucker, Naida	184

AUTHOR INDEX, VOLUME 124

Allen, Geraldine A.	254	LaGory, Kirk E.	318
Antos, Joseph A.	254	Langenheim, Jean H.	239
Baskin, Carol C.	214	Lanza, Janet	379
Baskin, Jerry M.	214	Lipscomb, Mary V.	142
Bendell, James F.	330	Louda, Svaťa M.	105
Bertin, Robert I.	153	Marcogliese, David J.	309
Bloom, Charles T.	214	Matthews, William J.	31
Brigham, R. Mark	73	Maycock, Paul F.	289
Bursey, Charles R.	360	McGuire, Terry R.	12
Buschhaus, Nancy L.	318	Menges, Eric S.	171
Clark, Bryon K.	22	Morgan, Michael D.	209
Collinge, Sharon K.	105	Morris, Hershel F., Jr.	413
Doyle, Arlene T.	187	Myster, Randall W.	231
Eisenberg, Robert M.	390	Naylor, Brian J.	330
Esch, Gerald W.	309	Nilsen, Erik T.	142
Feldhamer, George A.	191	Parker, V. Thomas	114
Gerard, Anthony S.	191	Patten, Duncan T.	269, 278
Gettinger, Ronald D.	181	Pickett, S. T. A.	231
Ghent, Arthur W.	184	Potvin, Martha A.	105
Goater, Timothy M.	309	Rand, Matthew S.	352
Goldberg, Stephen R.	360	Rathman, Eric S.	379
Gooch, James L.	93	Ritke, Mark E.	342
Graham, Mary Ann	81	Ruckdeschel, Carol A.	407
Graham, Russell W.	81	Sexton, Owen J.	198
Greenlee, Jason M.	239	Shoop, C. Robert	407
Grobman, Arnold B.	366	Smith, Beverley A.	330
Harlow, Richard F.	187	Steuter, Allen A.	301
Harmon, Jeff L.	372	Stromberg, Juliet C.	269, 278
Harrel, Austin T.	413	Swearingen, Chris D.	57
Huber, James K.	263	Swengel, Ann B.	395
Hurd, L. E.	390	Taylor, Douglas H.	318
Ihnen, Joel	301	Thill, Ronald E.	413
Innes, Duncan G. L.	330	Tieszen, Larry L.	301
Jasch, Bruce	301	Towers, Julie	164
Johnson, W. Carter	130, 142	Trumbo, Stephen T.	1
Joy, James E.	372	Vives, Stephen P.	46
Kaufman, Donald W.	22, 195	Wilkins, Kenneth T.	57
Kaufman, Glennis A.	195	Williams, Charles E.	130, 142
Kelly, Victoria R.	114	Wilson, Jeffrey	379
Keppie, Daniel M.	164	Worthen, Wade B.	12
Killingbeck, Keith T.	124	Zoladeski, Christopher A.	289
		Zucker, Naida	184

SUBJECT INDEX, VOLUME 124

- Alabama, chemical effects on mammal trapping . . . 181
- Alligator mississippiensis*, predator on terrestrial mammals . . . 407
- Anodonta imbecillis*, growth rates . . . 372
- Arabis laevigata*, germination ecology . . . 214
- Arctostaphylos* spp., seed bank survival and dynamics . . . 114
- Arizona, flower production and floral ratios in Arizona walnut . . . 278
- variation in seed size of Arizona walnut . . . 269
- Behavior, animal, fallow deer during rut . . . 318
- horny-headed chub . . . 46
- Biogeography, distribution of pocket gopher . . . 57
- genetic patterns in *Gammarus* . . . 93
- Birds, food habits of flying squirrels in red-cockaded woodpecker colonies . . . 187
- nesting phenology of spruce grouse . . . 164
- prey selection by nighthawks . . . 73
- British Columbia, prey selection by bats and nighthawks . . . 73
- reproductive effort in *Oemleria cerasiformis* . . . 254
- California, fire regime and vegetation patterns . . . 239
- seed bank survival and dynamics . . . 114
- Campsis radicans*, paternal success . . . 153
- Chordeiles minor*, prey selection . . . 73
- Cirsium canescens*, recruitment of seedlings . . . 105
- Crepidostomum cooperi*, related to lake trophic status . . . 309
- Colorado, sexual colorization in the red-lipped prairie lizard . . . 352
- Cuterebra*, parasitism on small mammals . . . 22
- Dama dama dama*, behavior during rut . . . 318
- Dendragapus canadensis*, nesting phenology . . . 164
- Desert, leaf production and root activity in ocotillo . . . 124
- Ecology, animal, botfly parasitism on small mammals . . . 22
- butterfly count . . . 395
- chemical effects on mammal trapping . . . 181
- densities of masked shrew . . . 330
- fish communities . . . 31
- flesh fly feeding preferences . . . 379
- food habits of flying squirrels . . . 187
- fox squirrel replaced by gray squirrel . . . 198
- index of dispersion . . . 184
- mycophagus fly communities . . . 12
- nesting and behavior of hornyhead chub . . . 46
- nutritional quality of deer diets . . . 413
- patch use by mice . . . 195
- phenology and competition in mantids . . . 390
- prey selection by bats and nighthawks . . . 73
- reproduction of burying beetles . . . 1
- soil temperature and emergence of box turtles . . . 366
- survey methods for shrews . . . 191
- variation in pocket gopher . . . 57
- Ecology, plant, age structure of table mountain pine . . . 130
- biomass allocation in *Laportea* . . . 171
- biological interaction in recruitment of thistle . . . 105
- boreal forest dynamics . . . 289
- establishment of table mountain pine . . . 142
- fire regime and vegetation pattern in California flower production and floral ratios of Arizona walnut . . . 278
- germination ecology of *Arabis laevigata* . . . 214
- index of dispersion . . . 184
- leaf production and root activity in ocotillo . . . 124
- modern pollen rain in Ozarks . . . 263
- old-field succession . . . 231
- paternal success of *Campsis radicans* . . . 153
- seed bank survival and dynamics . . . 114
- seed germination of *Iris* . . . 209
- variation in seed size of Arizona walnut . . . 269
- woodland/grassland boundary . . . 301
- Eptesicus fuscus*, prey selection . . . 73
- Fish, nesting and behavior of hornyhead chub . . . 46
- variation in communities . . . 31
- Fouquieria splendens*, leaf production and root activity . . . 124
- Fungi, fly communities in mushrooms . . . 12
- Gammarus minus*, genetic patterns . . . 93
- Genetics, patterns in *Gammarus* . . . 93
- Geomys personatus*, geographic variation . . . 57
- Georgia, alligators prey on terrestrial mammals . . . 407
- Glaucomys volans*, food habits . . . 187
- Illinois, fallow deer behavior during rut . . . 318
- holocene records of *Martes* . . . 81
- paternal success of *Campsis radicans* . . . 153
- survey methods for shrews . . . 191
- Insects, burying beetles . . . 1
- butterfly count . . . 395
- flesh fly feeding preferences . . . 379
- mycophagus fly communities . . . 12
- phenology and competition in mantids . . . 390
- trematode on may fly . . . 309
- Invertebrates, other than insects, genetic patterns in *Gammarus* . . . 93
- growth of *Anodonta imbecillis* . . . 372
- Iris virginica*, seed germination . . . 209
- Juglans major*, flower production and floral ratios . . . 278
- variation in seed size . . . 269
- Kansas, botfly parasitism on small mammals . . . 22
- patch use by mice . . . 195
- Kentucky, seed germination of *Arabis laevigata* . . . 214

Lakes, parasite related to trophic status	309	<i>Pinus ponderosa</i> , in grassland matrix	301
<i>Laportea canadensis</i> , biomass allocation to reproduction	171	<i>Pinus pungens</i> , age structure	130
Louisiana, nutritional quality of deer diets	413	establishment	142
Mammals, botfly parasitism on	22	Predation, alligators on terrestrial mammals	407
chemical effects on trapping	181	prey selection by bats and nighthawks	73
densities of masked shrew	330	<i>Procyon lotor</i> , intrasexual selection	342
fallow deer behavior during rut	318	<i>Reithrodontomys megalotis</i> , patch use	195
fox squirrel replaced by gray squirrel	198	Reproduction, biomass allocation in <i>Laportea</i>	171
geographic variation in pocket gopher	57	burying beetles	1
holocene records of <i>Martes</i>	81	flower production and floral ratio of Arizona walnut	278
nutritional quality of deer diets	413	germination ecology of <i>Arabis laevigata</i>	214
patch use by mice	195	nesting of spruce grouse	164
prey selection by bats	73	paternal success of <i>Campsis radicans</i>	153
sexual dimorphism in raccoon	342	recruitment of seedlings in thistle	105
survey methods for shrews	191	reproductive effort in <i>Oemleria cerasiformis</i>	254
<i>Mantis religiosa</i> , phenology and competition	390	seed germination of <i>Iris virginica</i>	209
<i>Martes pennanti</i> and <i>M. americana</i> , holocene records	81	variation in seed size of Arizona walnut	269
Michigan, trematode parasite on mayfly	309	Reptiles, alligators prey on terrestrial mammals	407
Missouri, fox squirrel replaced by gray squirrel	198	gastrointestinal helminths in lizard	360
modern pollen rain in Ozarks	263	sexual coloration in red-lipped prairie lizard	352
soil temperature and emergence of box turtles	366	soil temperature and emergence of box turtles	366
Nebraska, recruitment of thistle seedlings	105	<i>Sarcophaga bullata</i> , feeding preferences	379
woodland/grassland boundary	301	<i>Sceloporus jarrovi jarrovi</i> , gastrointestinal helminths	360
New Brunswick, nesting phenology of spruce grouse	164	<i>Sceloporus undulatus erythrocheilus</i> , sexual coloration	352
New Jersey, mycophagous fly communities	12	<i>Sciurus niger</i> and <i>S. carolinensis</i> , species replacement	198
old-field succession	231	<i>Sorex cinereus</i> , high densities in jack pine	330
New Mexico, leaf production and root activity in ocotillo	124	South Carolina, food habits of flying squirrels in red-cockaded woodpecker colonies	187
<i>Nicrophorus</i> , reproduction, phenology and biogeography	1	Statistics, index of dispersion	184
<i>Nocomis biguttatus</i> , nesting and behavior	46	Succession, boreal forest	289
North Carolina, burying beetles	1	old field	231
<i>Odocoileus virginianus</i> , nutritional quality of diet	413	<i>Tenodera sinensis</i> , phenology and competition	390
<i>Oemleria cerasiformis</i> , reproductive effort	254	<i>Terrapene carolina</i> and <i>T. ornata</i> , soil temperature and emergence	366
Ontario, boreal forest	289	Texas, geographic variation in pocket gopher	57
densities of masked shrew	330	Virginia, age structure of table mountain pine	130
Ozark region, modern pollen rain	263	establishment of table mountain pine	142
Paleoecology, holocene records of <i>Martes</i>	81	fish communities	31
Palynology, modern pollen rain in Ozarks	263	West Virginia, growth of <i>Anodonta imbecilis</i>	372
Parasites, botflies on small mammals	22	Wisconsin, biomass allocation in <i>Laportea</i>	171
gastrointestinal helminths in lizard	360	nesting and behavior of hornyhead chub	46
trematode on mayfly	309	seed germination of <i>Iris</i>	209
Pennsylvania, genetic patterns in <i>Gammarus</i>	93		
<i>Peromyscus maniculatus</i> , patch use	195		
<i>Picoides borealis</i> , food habits of flying squirrels in colonies of	187		



CONTENTS

No. 1 July 1990

Reproductive Success, Phenology and Biogeography of Burying Beetles (Silphidae, Nicrophorus)	Stephen T. Trumbo	1
Predictability of Ephemeral Mushrooms and Implications for Mycophagous Fly Communities	Wade B. Worthen and Terry R. McGuire	12
Prevalence of Botfly (<i>Cuterebra</i> sp.) Parasitism in Populations of Small Mammals in Eastern Kansas	Bryon K. Clark and Donald W. Kaufman	22
Spatial and Temporal Variation in Fishes of Riffle Habitats: A Comparison of Analytical Approaches for the Roanoke River	William J. Matthews	31
Nesting Ecology and Behavior of Hornyhead Chub <i>Nocomis biguttatus</i> , a Keystone Species in Allequash Creek, Wisconsin	Stephen P. Vives	46
Factors Affecting Historical Distribution and Modern Geographic Variation in the South Texas Pocket Gopher <i>Geomys personatus</i>	Kenneth T. Wilkins and Chris D. Swearingen	57
Prey Selection by Big Brown Bats (<i>Eptesicus fuscus</i>) and Common Nighthawks (<i>Chordeiles minor</i>)	R. Mark Brigham	73
Holocene Records of <i>Martes pennanti</i> and <i>Martes americana</i> in Whiteside County, Northwestern Illinois	Mary Ann Graham and Russell W. Graham	81
Spatial Genetic Patterns in Relation to Regional History and Structure: <i>Gammarus minus</i> (Amphipoda) in Appalachian Watersheds	James L. Gooch	93
Predispersal Seed Predation, Postdispersal Seed Predation and Competition in the Recruitment of Seedlings of a Native Thistle in Sandhills Prairie	Svata M. Louda, Martha A. Potvin and Sharon K. Collinge	105
Seed Bank Survival and Dynamics in Sprouting and Nonsprouting <i>Arctostaphylos</i> Species	Victoria R. Kelly and V. Thomas Parker	114
Leaf Production Can Be Decoupled from Root Activity in the Desert Shrub <i>Ocotillo</i> (<i>Fouquieria splendens</i> Engelm.)	Keith T. Killingbeck	124
Age Structure and the Maintenance of <i>Pinus pungens</i> in Pine-oak Forests of Southwestern Virginia	Charles E. Williams and W. Carter Johnson	130
Influence of Leaf Litter and Soil Moisture Regime on Early Establishment of <i>Pinus pungens</i>	Charles E. Williams, Mary V. Lipscomb, W. Carter Johnson and Erik T. Nilsen	142
Paternal Success Following Mixed Pollinations of <i>Campsis radicans</i>	Robert I. Bertin	153
Using Phenology to Predict Commencement of Nesting of Female Spruce Grouse (<i>Dendragapus canadensis</i>)	Daniel M. Keppie and Julie Towers	164
Environmental Correlations with Male, Female and Clonal Biomass Allocation in the Forest Herb, <i>Laportea canadensis</i>	Eric S. Menges	171

Notes and Discussion

Effect of Chemical Insect Repellents on Small Mammal Trapping Yield ..	Ronald D. Gettinger	181
A Readily Interpreted Index of Dispersion Based on Nearest-Neighbor Analyses	Arthur W. Ghent and Naida Zucker	184
Food Habits of Southern Flying Squirrels (<i>Glaucomys volans</i>) Collected from Red-cockaded Woodpecker (<i>Picoides borealis</i>) Colonies in South Carolina	Richard F. Harlow and Arlene T. Doyle	187
A Comparison of Two Survey Methods for Shrews: Pitfalls and Discarded Bottles	Anthony S. Gerard and George A. Feldhamer	191
Influence of Plant Litter on Patch Use by Foraging <i>Peromyscus maniculatus</i> and <i>Reithrodontomys megalotis</i>	Donald W. Kaufman and Glennis A. Kaufman	195
Replacement of Fox Squirrels by Gray Squirrels in a Suburban Habitat	Owen J. Sexton	198

CONTENTS

No. 2 October 1990

Seed Germination Characteristics of <i>Iris virginica</i>	Michael D. Morgan	209
Germination Ecology of the Facultative <i>Arabis laevigata</i> variety <i>laevigata</i>	Charles T. Bloom, Carol C. Baskin and Jerry M. Baskin	214

Initial Conditions, History and Successional Pathways in Ten Contrasting Old Fields	231
Historic Fire Regimes and Their Relation to Vegetation Patterns in the Monterey Bay Area of California	239
A Comparison of Reproductive Effort in the Dioecious Shrub <i>Oemleria cerasiformis</i> Using Nitrogen, Energy and Biomass as Currencies	254
Modern Pollen Rain in the Southeast Missouri Ozarks	263
Variation in Seed Size of a Southwestern Riparian Tree, Arizona Walnut (<i>Juglans major</i>)	269
Flower Production and Floral Ratios of a Southwestern Riparian Tree, Arizona Walnut (<i>Juglans major</i>)	278
Dynamics of the Boreal Forest in Northwestern Ontario	289
Woodland/Grassland Boundary Changes in the Middle Niobrara Valley of Nebraska Identified by $\delta^{13}\text{C}$ Values of Soil Organic Matter	301
<i>Crepidostomum cooperi</i> (Allocreadidae) in the Burrowing Mayfly, <i>Hexagenia limbata</i> (Ephemeroptera) Related to Trophic Status of a Lake	309
Behavior in an Introduced Population of Fallow Deer during the Rut	318
High Densities of the Masked Shrew, <i>Sorex cinereus</i> , in Jack Pine Plantations in Northern Ontario	330
Sexual Dimorphism in the Raccoon (<i>Procyon lotor</i>): Morphological Evidence for Intrasexual Selection	342
Polymorphic Sexual Coloration in the Lizard <i>Sceloporus undulatus erythrocheilus</i>	352
Gastrointestinal Helminths of the Yarrow Spiny Lizard, <i>Sceloporus jarrovi jarrovi</i> Cope	360
The Effect of Soil Temperatures on Emergence from Hibernation of <i>Terrapene carolina</i> and <i>T. ornata</i>	366
Growth Rates of the Freshwater Mussel <i>Anodonta imbecillis</i> Say 1829, in Five West Virginia Wildlife Station Ponds	372
Feeding Preferences of Flesh Flies (<i>Sarcophaga bullata</i>) for Sugar-only vs. Sugar-amino Acid Nectars	379
Experimentally Synchronized Phenology and Interspecific Competition in Mantids	390
Monitoring Butterfly Populations Using the Fourth of July Butterfly Count	395
Alligators as Predators on Terrestrial Mammals	407
Notes and Discussion	
Nutritional Quality of Deer Diets from Southern Pine-Hardwood Forests	413
Author Index, Volume 124	418
Subject Index, Volume 124	419
Contents, Volume 124	i